The TSRC series is an attractive, low prole enclosure that incorporates a precision temperature sensor used to monitor room temperatures. Additional options are available that include setpoint adjustment, manual override, fan speed and LCD

SPECIFICATION:

Sensing Element....................Various thermistors and RTDs
Sensor Accuracy.....................Thermistors: ±0.2˚C (±0.36˚F),
0 to 70˚C (32 to 158˚F)
Platinum RTD's: ±0.3˚C (±0.54˚F)
@ 0˚C (32˚F)
Nickel RTD's: ±0.4˚C (±0.72˚F)
....@ 0˚C (32˚F)
Operating Conditions..........0-50 °C (32-122 °F),
0-95 %RH non-condensing
Wiring Connections..............Screw terminal block (14 to 22 AWG)
Sensor only - Pigtail, 2 or 3 wire
Enclosure.................................Wall mount enclosure,
White ABS - IP30 (NEMA 1)
84 w x 119 h x 29 d mm (3.3" x 4.7" x 1.15")

OPTIONS:

Override Switch
Switch Type..............................Front panel, momentary pushbutton,
N.O., SPST, 50 mA @12 Vdc

Fan Speed Switch
Range...O, Auto, Low, Medium, High
Signal ....Resistance: 0, 2, 4, 6 and 8 KΩ
standard (Custom ranges available)

Setpoint Slide Pot
Range...Front panel pot as resistive output,
0-10 KΩ standard
Custom spans available......1K, 2K, 5K, 10K or 20K Ω

Occupied Input
Signal Type..............................Digital input, 0/5 Vdc standard, active low
Action ....Causes "OCC" segment to light on LCD

LED Input
Signal Type..............................Active high, low or 2-wire,
5 V current limit standard
LED Colors...............................Red, Green or Yellow
Power Supply..........................5 Vdc standard, 10 Vdc or 24 Vdc optional

LCD Display
Power Supply..........................12-24 Vdc / 24 Vac ± 10%
(non-isolated half-wave rectied)
Consumption @ 24 Vdc ....13 mA max (no backlight),
23 mA max (with backlight)
Protection Circuitry..............Reverse voltage protected
Range...0.0-35.0 °C or 32.0-95.0 °F
jumper selectable
Resolution ....0.1 °C/°F
Display Size..............................38.1 w x 16.5 h mm(1.5" x 0.65")
Digit Height ....11.43 mm (0.45")
Symbols ....°C,°F, OCC
Backlight...................................Enable or disable via jumper

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TSRC	Room Temperature Sensor

CODE	Sensor
2	100 Ω Platinum, IEC 751, 385 Alpha, thin lm
5	1801 Ω, NTC Thermistor , ±0.2 C
6	3000 Ω, NTC Thermistor, ±0.2 C
7	10,000 Ω, type 3, NTC Thermistor, ±0.2 C
8	2.252K Ω, NTC Thermistor, ±0.2 C
12	1000 Ω Platinum, IEC 751, 385 Alpha, thin lm
13	1000 Ω Nickel, Class B, DIN 43760
14	10,000 Ω, type 3, NTC Thermistor, ±0.2 C c/w 11K shunt resistor
20	20,000 Ω, NTC Thermistor, ±0.2 C
24	10,000 Ω, type 2, NTC Thermistor, ±0.2 C

CODE	Options (Multiple selections can be made)
P	0-10K linear slide pot for set point control
S	Exposed push button momentary switch - N.O.
C	3-digit LCD temperature indicator ˚C / ˚F selectable
F	Fan speed switch (Auto, O, Low, Mid, High)
Y	Yellow LED (n/a if C option selected)
R	Red LED (n/a if C option selected)
G	Green LED (n/a if C option selected)
E	External jack for remote system access (4-pin header)
GS	**Greystone Customized Version (TSRC*GS***)**

Greystone Energy Systems, Inc. reserves the right to make design modications without prior notice.

Due to the many possible congurations, special part numbers may be required. Please contact Greystone for more information
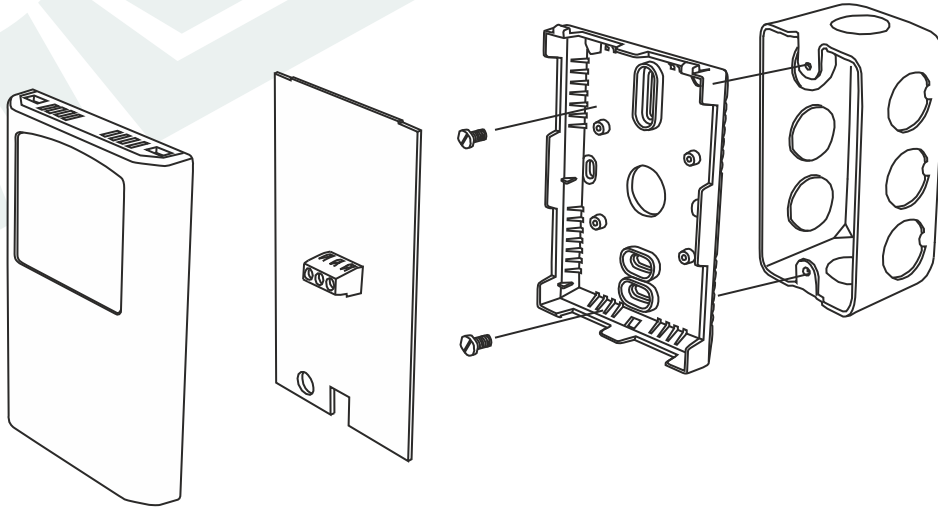
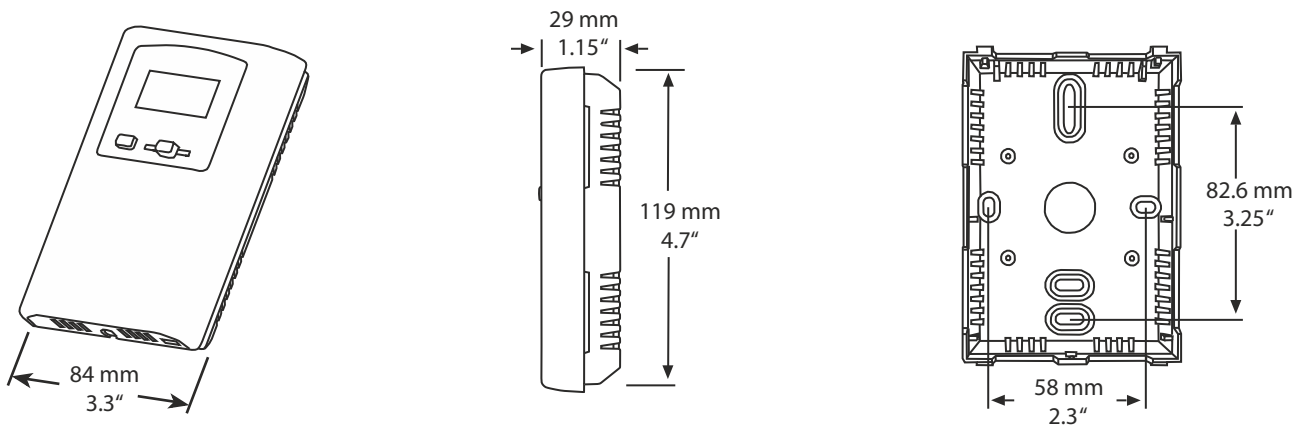**TSRC*GS*** Description:**

TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation   instructions.

The TSRC series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from internal wall temperatures.

For sensor only models a 2 wire or 3 wire pigtail is used for connection to the Building Automation System. In models with options such as setpoint adjustment or manual override, a terminal block connection is provided.

DIMENSIONS:

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